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1 [User-cognizant multidimensional analysis](#)

Sunita Sarawagi

September 2001 **The VLDB Journal — The International Journal on Very Large Data**

Bases, Volume 10 Issue 2-3

Full text available: [pdf\(248.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Our goal is to enhance multidimensional database systems with a suite of advanced operators to automate data analysis tasks that are currently handled through manual exploration. In this paper, we present a key component of our system that characterizes the information content of a cell based on a user's prior familiarity with the cube and provides a context-sensitive exploration of the cube. There are three main modules of this component. A Tracker, that continuously tracks the parts of the cub ...

Keywords: Maximum entropy, Multidimensional data exploration, OLAP, Personalized mining, User-sensitive interest measure

2 [Observations on nondeterministic multidimensional iterative arrays](#)

Joel I. Seiferas

April 1974 **Proceedings of the sixth annual ACM symposium on Theory of computing**Full text available: [pdf\(878.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Let NIA(d) be the family of languages accepted within linear time by nondeterministic d-dimensional iterative arrays. (On-line deterministic multidimensional iterative arrays have been studied by Cole [2].) It has been observed [8] that every language accepted by a one-dimensional single-head Turing machine simultaneously within time n^2 and space n is in NIA(2). Our main result (Theorem 2) generalizes this observation to NTIME(nd

3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide